

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2005/008378

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B29B7/74

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B29B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 283 329 B1 (BEZAIRE LEON J ET AL) 4 September 2001 (2001-09-04) column 3, line 6 - line 31 column 7, line 53 - column 8, line 65 column 9, line 56 - column 10, line 13 column 10, line 51 - line 67; figures 1,2,5,6	1,2,9, 12,18, 19,43,44
Y	US 5 529 245 A (BROWN ET AL) 25 June 1996 (1996-06-25) column 4, line 59 - column 5, line 33 column 5, line 64 - column 6, line 2; figures 1,2,5-7 ----- -/--	1,2,9, 12,18, 19,43,44

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

17 June 2005

Date of mailing of the international search report

30. 08. 2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 950 875 A (LEE ET AL) 14 September 1999 (1999-09-14) column 7, line 1 - column 9, line 33; figures 1,2 -----	1,2,9, 12,18, 43,44
A	US 5 462 204 A (FINN ET AL) 31 October 1995 (1995-10-31) column 3 - column 4; figures 1,2,4 -----	1,2
A	US 4 549 676 A (GERICH ET AL) 29 October 1985 (1985-10-29) column 3, line 38 - column 5, line 10; figure 1 -----	1,2

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-20, 43, 44

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-20,43,44

A hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a driver, a reciprocating member and a first and a second valve assembly extending rearwardly off of the manifold and so of the mixing module.

A method of assembling a dispenser and a method of dispensing polyurethane packaging foam.

2. claims: 21-27

A hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a drive assembly, a reciprocating member said drive assembly comprising a ball screw transmission assembly with a ball screw pitch angle of less than 11 degrees.

3. claims: 28-32

A hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a driver, a reciprocating member said dispenser having electrical plug connection means at a rear end of said dispenser.

4. claims: 33,34

A hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a driver, a reciprocating member said manifold having a pair of dispense material passageways and fittings for connection with sources of dispense material said fittings being swivel fittings.

5. claim: 35

A hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a driver, a reciprocating member said manifold having a pair of dispense material passageways and fittings for connection with sources of dispense material said fittings having castellated free ends.

6. claims: 36,37

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

A hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a driver, a reciprocating member, an electronic trigger assembly and a finger compression member.

7. claims: 38-42

A hand held dispenser comprising a handle, a dispense material manifold, a mixing module, a driver, a reciprocating member and elongated filter assemblies.

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6283329	B1	04-09-2001	US 6315161 B1	13-11-2001
US 5529245	A	25-06-1996	AU 2945195 A WO 9600130 A1	19-01-1996 04-01-1996
US 5950875	A	14-09-1999	US 5791522 A AU 3084999 A BR 9909226 A CA 2325376 A1 EP 1068058 A2 WO 9950037 A2 AT 214640 T AU 722714 B2 AU 7611496 A BR 9611672 A CA 2236531 A1 CZ 9801621 A3 DE 69620002 D1 DE 69620002 T2 EP 0859667 A1 ES 2172688 T3 HU 9902147 A2 JP 2000501041 T PL 326919 A1 WO 9719756 A1	11-08-1998 18-10-1999 28-11-2000 07-10-1999 17-01-2001 07-10-1999 15-04-2002 10-08-2000 19-06-1997 23-02-1999 05-06-1997 17-02-1999 02-05-2002 14-11-2002 26-08-1998 01-10-2002 29-11-1999 02-02-2000 09-11-1998 05-06-1997
US 5462204	A	31-10-1995	AU 682942 B2 AU 1978295 A BR 9507215 A CA 2186474 A1 CN 1139415 A ,C DE 69514911 D1 DE 69514911 T2 EP 0749399 A1 JP 2841869 B2 JP 9511680 T KR 246072 B1 NZ 282612 A WO 9526315 A1 ZA 9502511 A	23-10-1997 17-10-1995 09-09-1997 05-10-1995 01-01-1997 09-03-2000 17-08-2000 27-12-1996 24-12-1998 25-11-1997 01-04-2000 22-09-1997 05-10-1995 19-12-1995
US 4549676	A	29-10-1985	NONE	